

CONFIDENTIAL

12 November 1948

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Chief Engineer, FBIB

Tokyo Technical operations.

1. You will recall our conversation during my recent trip to Reseda with reference to [redacted], our Monitoring Technician, CAF-7, in Tokyo. Recent correspondence from [redacted] Chief, Tokyo Bureau, continues to express doubt in Buddy's ability to properly maintain and adjust the new Dictaphone recording and transcribing equipment.

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2. It is requested that you make a study of Buddy's performance and attitude on the job and advise us directly of what your findings are. You should advise as to whether or not Buddy should be replaced, giving reasons for your conclusions.

3. [redacted] insists that it is not feasible in his Bureau to operate the Dictaphone A-2H recorders without allowing the monitors access to the amplifier controls, particularly since a monitoring technician is not always on duty.

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We believe that he can get better results in more consistent recordings if the recorder amplifiers are first properly adjusted by a technician and then if all further changes in level are made at the receiver, regardless of whether or not a monitoring technician is on.

You are requested to look into this problem when you are in Tokyo and as a result of your study, either reaffirm our directives or report to this office any reasons why our directives are not applicable.

4. The kits of replacement parts for the Dictaphone belt equipment will probably have arrived in Tokyo when you arrive. You are requested to spend as much time as is necessary to instruct Buddy in the maintenance of this equipment and in completely going over all Dictaphone equipment to put it into the best possible working order, installing new parts where necessary.

5. Enclosed you will find a copy of a teletype message to [redacted] indicating what equipment Kanai is expected to ship to Okinawa. Another study of what equipment should be transferred will be made shortly before Kanai is to be closed.

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FOR THE CHIEF, FBIB

W. M. KL

Enc.

1. 16 July memo to Chief, Tokyo Bureau

2. 311625 August TT

3. 081510 [redacted]

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C O P Y

Chief, Tokyo Bureau

16 July 1948

Chief Engineer, FBIS

Technical questions brought up in your 30 June 1948 letter to Chief, FBIS.

1. It is unfortunate that [] didn't have a chance to work with the new Dictaphone equipment before he went to Tokyo. Kauai didn't receive their equipment before he left—and that was the only place he could have gotten such experience without making a trip to the United States. In this regard, we will try to arrange [] schedule on his trip to Okinawa so that he can stop over for a few days in Tokyo to help [] out. [] has been assigned the job of building the Okinawa station under []'s overall command, and probably will be going through Tokyo in late September. 25X1 25X1 25X1

2. We recommend that the five Dictaphone Model A-2M recorders not be altered either with respect to motor speed or with respect to removal of amplifier from bottom of recorder cabinet. The reasons for this recommendation are given herewith. The recorder speed normally should be constant so that the transcribing speed will fall into the range of the transcriber speed variation. The speed adjustment problem becomes too inconvenient unless the recorder speed is left constant. Also, you will be receiving five transcribers which will have speed, tone and volume control as well as foot control for start-and-stop and for back spacing. The speed control on the transcribers will fill your requirements. Accidental variation of the speed control rheostat you might install on the recorders would possibly throw the speed of recording out of range of your transcribers—when the transcribers are received. Also, the motors on this equipment are of a synchronous type—a type which does not respond to control with a rheostat very well. It is this synchronous feature which gives you the 17 percent speed variation between 50 and 60 cycle operation. The motors are designed for a speed to give 15 minute belt time on 60 cycle power. The same discussion applies to the transcribers, but the transcribers will handle the 17 percent speed variation in either direction from normal recording speed by changes in their motor design.

3. The amplifier on the recorders is really two amplifiers—one for recording and one for monitoring. The recording amplifier is an audio compression amplifier. This means that if the volume level of input and output is properly adjusted with the controls provided, the amplifier will tend to automatically level off volume levels to any desired average maximum output level. The input level should be adjusted so that the input stages of the amplifier do not block or distort on peak input levels. Then the output level is adjusted to give proper recording level from the output of the amplifier. The higher the input signal level arriving through the input level control to the input tube grid, for a given output level setting, the greater will be the compression control, i.e., the greater will be the allowable range of variations at the receiver with no need of making recording level adjustments. If these level settings are properly made, the monitor does not have to touch the amplifier controls. Actually, the machine is designed to make level adjustments during recording unnecessary. If necessary, further adjustments of input level should be made at the receiver not at the recorder. 0 8 8 8 0 1 0 0

4. [] will note that motors of the recorders run whenever the amplifier is turned on. We will send you a diagram of wiring changes to be made to eliminate this unnecessary wear on motors, belts, etc. There are other changes which we have found necessary for better operation—information on these will also be sent to you. 25X1

5. Now as a guide as to why your recordings vary in quality, let us say first that monitors should never make adjustments on the amplifier controls. The inter-relationships between the various controls is too hard for them to understand. [] should set these controls as per instructions above and monitors should be instructed to make any necessary level changes at the receiver. We have a strong suspicion that this subject might lead to the elimination of most of your difficulties. A further reason why quality of recordings may vary greatly from the same machine is that one of the two recorder styli may be chipped. This may easily be determined by inspection with a magnifying glass—or by correlating closely poor recordings made on the same recording head. 25X1

6. An assortment of maintenance and replacement parts will be shipped you soon. The five transcribers for your office are leaving soon by parcel post. Please feel free to call on us as often as necessary where we may be of help to you.

FOR THE CHIEF, FBIS,

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1. Ref. para. 2 your letter 10 Aug. concerning adjustment of controls on Dictaphone recorders.
2. To avoid future difficulties in use of this equipment, the following procedure is outlined for your guidance and is to be followed explicitly, without change, unless authorized by this office.
3. Have monitoring technician obtain the proper compression adjustment of the recording amplifier.
4. Instruct monitors to make no/ ^{rpt no} change in this adjustment.
5. Immediately prior to monitoring and recording of scheduled programs-adjust volume controls on receiver so that volume indicator on recorder indicates 10 to 13 units on program peaks.

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Following furniture to be transferred to forward site from Kauai subject to condition of such equipment at time transfer is to be made:

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| 1. Desk; wood, with typewriter compartment, pedestal. | One ea. |
| 2. Desk; wood, double pedestal. | Five ea. |
| 3. Chair; wood, swivel, with or without arms. | Six ea. |
| 4. Chair; typist, upholstered back and seat, best available. | Six ea. |
| 5. Stand; typewriter. | Three ea. |
| 6. Lamp; desk, gooseneck. | All available |
| 7. Cabinet; upright, filing, metal, cap or standard size, 4 drawer. | All available |
| 8. Refrigerator; electric, 6 to 8 cuft, pick from all available. | Best ten |
| 9. Stove; electric range, 3 burner. | One ea. |
| 10. Machine, washing. | One ea. |
| 11. Cabinet; upright, card 4 X 6 inch, 1 drawer. | 2 ea. |
| 12. Cabinet; upright, card 3 X 5 inch, 2 drawer. | 10 ea. |
| 13. Fan; wall, electric. | 9 ea. |
| 14. Stove; kerosene, 3-burner, best available. | 5 ea. |
| 15. Table; metal, 66 X 36 inches. | 1 ea. |
| 16. Typewriter, non-portable, std. elite or pica type, 11 inch, best available. | 6 ea. |
| 17. Typewriter; non-portable, 14 inch capacity. | 1 ea. |
| 18. Typewriter; non-portable, 18 inch capacity. | 1 ea. |
| 19. Typewriter, portable, W/carrying case. | 1 ea. |
| 20. Clock; electric, desk or wall. | 5 ea. |
| 21. Dictionary, Webster, unabridged. | 1 ea. |
| 22. Case; brief, leather, lawyer type, with lock. | 0-02070100 ea. |

23. Safe; miscellaneous, 1 and 2 door. 2 ea.
24. Chair; straight back, hard wood. 12 ea.

Remainder of requirements for new project requisitioned. Following technical equipt. to be transferred subject to condition at time transfer is to be made:

1. Recorder; McKelroy, siphon ink, complete with Boshme tape puller. One set
2. Recorder; Dictaphone Model A-2M. 7 ea.
3. Transcriber; Dictaphone Model BPV. 1 ea.
4. Transcriber; Dictaphone Model TMB. 7 ea.
- (Remainder to be shipped to other units as later specified)
5. Receiver; sideband selector, McLaughlin. 2 ea.
6. Receiver; Mallicrafters SX-28, SX-28A, or SX-32, best 10. 10 ea.
7. Multicoupler; with power supply, cables and patch panel (1 medium wave, 2 standard) 3 ea.
- (Remaining 4 units to be shipped to mainland to destinations later to be specified)
8. Charger; battery. 2 ea.
9. Compressor; air, electric. 1 ea.
10. Compressor; air, W/gas engine. 1 ea.
11. Gun; grease, air. 1 ea.
12. Gun; spray, type GM-4230681. 1 ea.
13. Jack, floor. 1 ea.
14. Machine; calculating. 1 ea.
15. Machine; duplicating, with spirit. 1 ea.
16. Mower; lawn, gas power. 1 ea.
17. Pump; barrel.

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| 18. Saw; meter, with frame. | 1 ea. |
| 19. Scale; platform and postal. | 2 ea. |
| 20. Sedan; ford, 5-passenger 1948. | 1 ea. |
| 21. Standard; frequency meter type BC 221T. | 1 ea. |
| 22. Standard; frequency, Millen Model 90505. | 2 ea. |
| 23. Test set; volt Ohmyst Jr., RCA Model 165A. | 1 ea. |

Dictaphone wax cylinder equipment will be turned in to Dictaphone Corp. when ordered from here.

All electronic parts, small items, tubes, etc., will be sent to new station as soon as they can be spared—even before new station is activated. Only necessary spares to last until Kauai's closing date will be kept. This includes speakers, rack panels, racks telephones, etc.

Remainder of test equipment and receivers to be considered surplus. Power saw, grinder and drill press to be shipped to states to locations to be specified later.

Final decisions on remainder of servicable property to be made shortly before transfer of activity of new station is to be made. Surplus property may be disposed of by Services Branch at anytime.



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